

IN THE CLAIMS:

Please amend claims 1-3, 5, 7-10, 12-15, 18, 19, 21-23, 27, 29 and 31 as indicated in the following.

Please cancel claims 20 and 30 as indicated in the following.

Please add claim 32 as indicated in the following.

Claims Listing:

1. (Currently Amended) A method comprising ~~the steps of~~:
receiving one or more transport packets;
identifying a transport packet as containing audio stream data;
comparing ~~[[the]]~~a value of a first field in the transport packet to a value of a first field register to determine a first outcome; and
determining whether to enable audio stream data related to the transport packet to be received by a system or to discard the transport packet, ~~based upon~~based at least in part on the first outcome.
2. (Currently Amended) The method as in Claim 1, wherein the system is a decoding system and the method further includes ~~the step of further including~~ providing the audio stream data related to the transport packet to a decoding system.
3. (Currently Amended) The method as in Claim 2, wherein the audio stream data includes ~~[[PES]]~~Packetized Elementary Stream (PES) audio data.
4. (Original) The method as in Claim 2, wherein the decoding system detects an audio stream data property through a stream indicator included in the audio stream data.

5. (Currently Amended) The method as in Claim 4, wherein[[[,]] the data property includes an audio type.
6. (Original) The method as in Claim 4, wherein the data property includes a sampling rate.
7. (Currently Amended) The method as in Claim 4, wherein the stream indicator includes one or more start codes.
8. (Currently Amended) The method as in Claim 4, wherein the ~~indicators include~~stream indicator includes one or more presentation time stamps.
9. (Currently Amended) The method as in Claim 2, wherein the audio decoding system includes one of ~~an MPEG~~a Moving Pictures Experts Group (MPEG) audio decoder, an [[AC-3]]Audio Compression-3 (AC-3) audio decoder, an [[AAC]]Advanced Audio Coding (AAC) audio decoder [[and]]or a Digital Theatre Systems (DTS) [[DTS]] audio decoder.
10. (Currently Amended) The method as in Claim 2, wherein the decoding system includes an Inter-Integrated Circuit Sound (I2S) [[I2S]] formatter.
11. (Original) The method as in Claim 2, wherein the decoding system is capable of generating an interrupt to control receiving the audio data related to the transport packet.
12. (Currently Amended) The method as in Claim 11, wherein the ~~interrupt request~~ is initiated through an application.
13. (Currently Amended) The method as in Claim 1, further including ~~the step of providing~~ audio data related to the transport packet to memory.

14. (Currently Amended) The method as in Claim 13, wherein ~~the step of providing audio data~~ related to the transport packet to memory includes bus-mastering the audio data related to the transport packet to memory.
15. (Currently Amended) A system for parsing audio data associated with a transport packet of a packetized elementary stream, the system comprising:
- a data bus having a predetermined number of nodes for transmitting a plurality of data words;
 - a transport packet parser having:
 - a storage location having an output coupled to the data bus, the storage location to store a value identifying a first data word, wherein the first data word has an audio packet indicator;
 - a comparator having a first input coupled to the output of the storage location and an output coupled to an audio parser;
 - said audio parser having an enable input coupled to the comparator of the transport packet parser, the audio parser further includes:
 - a first storage location having an output coupled to the data bus, the first storage location to store a first value representing a valid data word having the first audio packet indicator;
 - a second storage location for storing a second value representing a comparable audio packet indicator;
 - a first audio packet filter for analyzing the first value with respect to the second value; and
 - a first comparator having an input coupled to the output of the first storage location of said audio parser and an output; and
 - an audio decoding system having an input coupled to said output of the first comparator of said audio parser, said audio decoding system including an elementary stream formatter for processing audio data associated with the data word into an elementary stream;
 - wherein the audio decoding system is enabled to process said audio data or to discard said audio data associated with the data word based at least in part on said output

of the first comparator.

16. (Original) The system as in Claim 15, wherein said comparable audio packet indicator includes a stream identifier.
17. (Original) The system as in Claim 15, further including a bus-master controller.
18. (Currently Amended) The system as in Claim 17, wherein said ~~bus-master~~bus-master controller is to bus-master a representative of said first data word from said audio parser to memory.
19. (Currently Amended) The method as in Claim 15, ~~further including an audio decoding system with an input coupled to said output of the first comparator of said audio parser, to process~~ wherein said audio decoder processes a representative of the first data word from said audio parser into audio data.
20. (Canceled) ~~The method as in Claim 19, wherein said audio decoding system includes an elementary stream formatter for processing data associated with the data word into an elementary stream.~~
21. (Currently Amended) The method as in Claim 15~~Claim 20~~, wherein said audio decoding system includes an I2S formatter.
22. (Currently Amended) The method as in Claim 15~~Claim 19~~, wherein said audio decoding system is capable of generating an interrupt in response to a request for a particular portion of audio data to be processed by said audio parser.

23. (Currently Amended) The method as in Claim 22, wherein said interruptrequest is generated through an application.
24. (Original) The system as in Claim 19, wherein said decoding system is capable of identifying an audio property of the representative of the first data word through a second audio packet indicator.
25. (Original) The system as in Claim 24, wherein said audio property includes an audio type.
26. (Original) The system as in Claim 24, wherein said audio property includes a sampling rate.
27. (Currently Amended) The system as in Claim 24, wherein said second audio packet indicator includes one or more start codes.
28. (Original) The system as in Claim 24, wherein said second audio packet indicator includes a presentation timestamp.
29. (Currently Amended) The system as in Claim 15~~Claim 19~~, wherein said audio decoding system is represented through hardware.
30. (Canceled) ~~The system as in Claim 18, wherein said audio decoding system is represented through software.~~
31. (Currently Amended) The system as in Claim 15~~Claim 18~~, wherein said audio decoding system includes one of an MPEG~~a Moving Pictures Experts Group (MPEG)~~ audio decoder, an [[AC-3]]Audio Compression-3 (AC-3) audio decoder, an [[AAC]]Advanced Audio Coding (AAC) audio decoder [[and]] or a Digital Theatre Systems (DTS)[[DTS]] audio decoder.

32. (New) A system comprising:

means for receiving one or more transport packets;

means for identifying a transport packet as containing audio stream data; and

means for determining whether to enable audio stream data related to the transport packet to be received by a system or to discard the transport packet based at least in part on a comparison of a value of a first field in the transport packet to a value of a first field register.